Response to Office Action of May 13, 2003

Application No. 09/890,379 Filing Date: July 27, 2001

Docket No.: 294-105 PCT/US Page 2 of 10

Please amend the application as follows:

In the claims:

Please cancel claims 29 and 33-45

1-45. (Cancelled)

Please add new claims 46-56 as follows:

46. (New) A method for inducing or stimulating a T-helper cell response in a human or animal against at least one antigen, while avoiding repeated exposure of vector proteins or vector

encoded proteins, the method comprises the steps of:

i. administering a first vaccine composition comprising a first vector encoding said

antigen;

ii. administering a second vaccine composition comprising a second vector encoding

said antigen and;

iii. administering a third vaccine composition comprising a third vector encoding said

antigen;

wherein the first, second and third vectors are not the same;

wherein the first, second and third vaccine compositions are administered sequentially to the

animal or human;

wherein at least part of said vectors functions as an adjuvant;. and

wherein the antigen is an antigen of a lentivirus.

47. (New) The method according to claim 46, wherein the lentivirus causes a temporary

or long lasting immune impairment.

48. (New) The method according to claim 48, wherein said adjuvant function directs the

immune response toward a more T helper 1 type or a more T helper 2 type of response or both.

Response to Office Action of May 13, 2003

Application No. 09/890,379 Filing Date: July 27, 2001 Docket No.: 294-105 PCT/US

Page 3 of 10

49. (New) The method according to claim 46, wherein said antigen comprises at least an immunogenic part, derivative and/or analogue of a lentivirus gag, pol, rev, tat, nef, or env protein or a combination thereof.

- 50. (New) The method according to claim 46, wherein at least one of said vaccine compositions comprises a nucleic acid encoding at least one proteinaceous molecule capable of inducing and/or boosting an immune response against said antigen.
- 51. (New) The method according to claim 50, wherein said proteinaceous molecule comprises said antigen, or an immunogenic part, derivative or analogue thereof.
- 52. (New) The method according to claim 50, wherein said nucleic acid comprises a nucleic acid selected from the group consisting of a Semliki Forest Virus, a poxvirus, a herpes virus and an adenovirus, or a combination thereof.
- 53. (New) The method according to claim 50, wherein said proteinaceous molecule is selected from the group consisting of a co-stimulatory protein, an immune response inhibitory protein, an interleukin, a major histocompatability complex protein and a functional part, derivatives and/or analogues thereof.
- 54. (New) The method according to claim 46, wherein said vector comprises a nucleic acid which encodes at least one proteinaceous molecule capable of modulating an immune response.
- 55. (New) The method according to claim 46, wherein said vector is a nucleic acid delivery vehicle comprising said nucleic acid.

Response to Office Action of May 13, 2003

Application No. 09/890,379 Filing Date: July 27, 2001 Docket No.: 294-105 PCT/US

Page 4 of 10

56. (New) The method according to claim 55, wherein said nucleic acid delivery vehicle is selected from the group consisting of a Semliki Forest Virus particle, a pox virus particle, a herpes virus particle and an adenovirus particle.